

WHAT IS CLAIMED:

1. An information recording apparatus for recording information on a recording medium by supplying said recording medium with energy to form marks different in physical property from non-recorded portions, comprising:

an energy generation means for generating recording energy;

a position control means for controlling a position of supply to said recording medium with an output of said energy generation means;

a drive means for driving said energy generation means;

a switching means for switching information based on user data and test information to supply these two kinds of information selectively to said drive means;

a reading means for reading said marks recorded on said recording medium;

a vibration means for vibrating said reading means in a direction perpendicular to a main scanning direction on said recording medium;

an evaluation means for evaluating a reproduced signal obtained by said reading means; and

a recording condition control means for controlling a recording condition on the basis of an evaluation result obtained by said evaluation means.

2. An information recording apparatus for recording information on a recording medium by supplying said recording medium with energy to form marks different in physical property from non-recorded portions, comprising:

an energy generation means for generating recording energy;

a position control means for controlling a position of supply to said recording medium with an output of said energy generation means;

a drive means for driving said energy generation means;

a conversion means for converting user data in accordance with a predetermined rule;

a switching means for switching information based on conversion of said user data by said conversion means and test information to supply these two kinds of information selectively to said drive means;

a reading means for reading said marks recorded on said recording medium;

an evaluation means for evaluating a reproduced signal obtained by said reading means; and

a recording condition control means for controlling a recording condition on the basis of an evaluation result obtained by said evaluation means, wherein, when said test information is supplied to said drive means so as to be recorded, specially prepared test information against said predetermined rule is used, and wherein when reproducing a mark being recorded said test information, a control operation of said position control means is changed to a condition of recording said test information.

3. An information recording apparatus according to claim 2, wherein said specially prepared test information contains a longer run than a run-length limit of said conversion means.

4. An information recording apparatus for recording information on a recording medium by supplying said recording medium with energy to form marks different in physical property from non-recorded portions, comprising:

an energy generation means for generating recording energy;

position control means for controlling a position of supply to said recording medium with an output of said energy generation means;

drive means for driving said energy generation means;

switching means for switching information based on user data and test information to supply these two kinds of information selectively to said drive means;

reading means for reading said marks recorded on said recording medium;

evaluation means for evaluating a reproduced signal obtained by said reading means; and

recording condition control means for controlling a recording condition on the basis of an evaluation result obtained by said evaluation means, wherein, when said test information is supplied to said drive means so as to be recorded, different kinds of test information are recorded on a plurality of tracks, and wherein when reproducing a mark being recorded said test information, a control operation of said position control means is changed to a condition of recording said test information.